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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/699,832		11/04/2003	Katsutoshi Izumi	031258	5574
23850	7590	02/07/2005		EXAMINER	
	•	RATZ, QUINTOS,	JACKSON JR, JEROME		
1725 K ST SUITE 100	•	W		ART UNIT	PAPER NUMBER
WASHING	WASHINGTON, DC 20006			2815	
				DATE MAILED: 02/07/2003	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	A I Ai No	Anglia and a					
	Application No.	Applicant(s)					
Office Action Summary	10/699,832 Examiner	IZUMI ET AL. Art Unit					
•	Jerome Jackson Jr.	2815					
The MAILING DATE of this communication app							
Period for Reply		mespendence dedress					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	16(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from to ause the application to become ABANDONED	ely filed will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 22 No.	ovember 2004						
<i>'</i> =	· <u> </u>						
) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
closed in accordance with the practice under Z	x parte Quayle, 1933 C.D. 11, 43	3 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-11 is/are pending in the application.							
4a) Of the above claim(s) <u>6</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
	Claim(s) <u>1-5 and 7-11</u> is/are rejected.						
•							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.	·					
10)⊠ The drawing(s) filed on <u>04 November 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) ☐ The oath or declaration is objected to by the Ex	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign	priority under 25 LLS C & 110(a)	(d) or (f)					
-	phonty under 35 0.5.C. § 119(a)	-(a) or (i).					
	a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.							
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 							
	- -	u III tilis ivational Stage					
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	atent Application (PTO-152)						
Paper No(s)/Mail Date							

Application/Control Number: 10/699,832

Art Unit: 2815

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5,7-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Linthicum '198.

Linthicum shows in figure 42 a GaN layer 304 grown locally on a silicon substrate. Claim 1 is anticipated. Claim 2 is rejected as the GaN layer is grown on a SiC layer. Claim 3 is rejected as the final structure is anticipated regardless of the process used to form the device. Patentability of a product by process claim is determined by the final product, regardless of how actually made, In re Hirao 190 USPQ 15 at 17 (footnote 3). See also In re Brown 173 USPQ 685; In re Luck 177 USPQ 523; In re Fessman 180 USPQ 324; In re Avery 186 USPQ 161; In re Wertheim 191 USPQ 90; and In re Morosi 218 USPQ 289, all of which make it clear that it is patentability of the final product per se which must be determined in a "product by process" claim, and not the patentability of the process, and that an old or obvious product produced by a new method is not patentable as a product, whether claimed in "product by process" claims or not. Note that applicant has the burden of proof in such cases, as the above caselaw makes clear. Note also that SiN layer 309 is a "mask". Claim 4 is rejected as above and further

in view of figure 8 which shows SiO2 layer 106 as a "mask". Claim 5 is rejected as SOI is taught by Linthicum. Claims 7-11 are likewise rejected as above.

Ek '428, Narayan '983 (fig.5) and Koide '966 are relevant art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Jackson Jr. whose telephone number is 571 272 1730. The examiner can normally be reached on t-th 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 571 272 1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

jj

JEROME JACKSON PRIMARY EXAMINER